

PLANT SPECIES OF SPECIAL CONCERN

MAY 1991

The Montana Natural Heritage Program (MTNHP) is conducting an inventory of the elements of biological diversity in Montana. The inventory includes plant species, animal species, and plant communities that are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of 336 plant taxa of special concern in Montana summarizes the current status of these plants. It has been developed from numerous sources including published and unpublished scientific literature, herbarium specimens, the Montana Rare Plant Project files (University of Montana), knowledgeable people, and field research. This list is dynamic and is revised as new data become available.

Comments and suggestions are needed concerning this list, particularly regarding additions or deletions. New locational information for any of these taxa is also being solicited. The MTNHP can supply current locational information and status data for most of these taxa.

Taxa are evaluated and ranked on the basis of their global (range-wide) status, and their state-wide status.

A scale of 1 (critically imperiled) to 5 (demonstrably secure) is used for these ranks, and each species is assigned the appropriate combination of global and state ranks.

Example: Adoxa moschatellina = G5 / S1. (Species is demonstrably secure globally; in Montana is critically imperiled because of extreme rarity (≤ 5 occurrences)).

Global and state ranks are assigned according to a standardized procedure used by all Natural Heritage Programs, and are defined below.

Global/State

Rank	Definition (G = Range-wide; S = Montana)
G1 S1	Critically imperiled because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.
G2 S2	Imperiled because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction.

- G3 S3 Either very rare and local, or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other factors; in the range of 21 to 100 occurrences.
- G4 S4 Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.
- G5 S5 Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.
- GU SU Possibly in peril, but status uncertain; more information needed.
- GH SH Historically known; may be rediscovered.
- GX SX Believed to be extinct; historical records only, continue search.

Other codes:

- Q Taxonomic questions or problems involved, more information needed; appended to the global rank.
- T Rank for a subspecific taxon (subspecies or variety); appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are in the process of being revised or completed. Any updates will appear on future lists.

USF&WS Status: The symbols in this column denote the categories defined in the U.S. Fish and Wildlife Service Notices of Review (1980, 1983, 1985, 1990) and indicate the status of a taxon under the federal Endangered Species Act of 1973:

- E Endangered (none in Montana).
- T Threatened (none in Montana).
- P Proposed E or T (none in Montana).
- C1 Notice of Review, Category 1 (substantial information on biological vulnerability to support proposals to list as endangered or threatened; **one in Montana**).
- C2 Notice of Review, Category 2 (some evidence of vulnerability

but not enough data to support listing at this time; **18 in Montana).**

C2*Category 2 taxon that is possibly extinct (none in Montana).

3A Taxa for which the USFWS has persuasive evidence of extinction (none in Montana).

3B Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species."

3C Taxa that have proven to be more abundant or widespread than was previously believed, and/or those that are not subject to any identifiable threat (**19 in Montana).**

USFS Status: The categories in this column are defined by Region 1 of the U.S. Forest Service as follows:

S SENSITIVE: a plant species, subspecies or variety, for which the Regional Forester has determined there is a concern for population viability within a state, as evidenced by a significant current or predicted downward trend in populations or habitat. All sensitive plants are known to occur on national forest land. This category may include federal candidates (C1, C2, 3C) or plants proposed for listing as threatened or endangered in the Federal Register.

W WATCH: a plant species, subspecies or variety that is in one of the two following groups; **1)** is not known to occur on national forest land but is predicted to occur there on the basis of suitable habitat, and for which there is concern for population viability within a state as evidenced by a significant current or predicted downward trend in populations or habitat. These taxa, if found on national forest land, would be designated as sensitive. This group may include federal candidates (C1, C2, 3C). **2)** is known to occur on national forest land but has no immediate or predicted threats to population viability. These taxa are important to monitor in the overall biodiversity program because of limited distribution or federal status. Included in this group may be taxa endemic to a state or federal candidates for which there is now evidence that populations are more widespread than previously thought and are considered secure 3C).

Montana Status: Lesica and Shelly (1991) placed plants (species, subspecies or variety) in one of the following seven status categories based on degree of threat to the plant in Montana. There are no state laws that provide direct protection for these plants and thus, these categories are not official.

E - ENDANGERED: Any plant in danger of extirpation throughout all or a significant portion of its range in Montana. Specific

threats to known populations have been identified.

T - THREATENED: Any plant likely to become endangered throughout all or a significant portion of its range in Montana in the foreseeable future. Specific threats to known populations have been identified.

S - SENSITIVE: Any plant that is known from a limited number of populations in Montana to that occurs primarily in restricted habitats considered vulnerable to man-caused disturbances. These plants may have a restricted range in Montana or they may be sparsely distributed over a larger area. Sensitive plants may become threatened or endangered in Montana if impacts to known populations occur.

PX - POSSIBLY EXTIRPATED: Recent field searches indicate that these plants, once known to occur in Montana, may no longer occur in the state.

WL -WATCH LIST: These plants are considered too common to be categorized as sensitive but more information is needed to be certain. In addition, the degree of threat is difficult to determine for many of these plants. Populations should be inventoried and periodically monitored to gain additional information. Occurrences of these plants are being tracked by the Montana Natural Heritage Program.

Plants of **limited distribution** or **undetermined** status are listed at the end of this list. They are defined as follows:

LIMITED DISTRIBUTION: These plants are limited to a small area of Montana (usually two counties or fewer) but are too abundant within that area to be sensitive. These plants are included because of their phytogeographic interest but, except for state endemics, most are not being tracked currently by the Montana Natural Heritage Program.

UNDETERMINED: Taxa for which there is a question as to identity or taxonomic status are included in this category. Also included here are plants reported to be in Montana but for which we have no verifiable evidence of their occurrence here.

Selected references:

Dorn, R.D. 1984. Vascular Plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Federal Register. 1980. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species. 45(242): 82480-82569. 15 December 1980.

Federal Register. 1983. Endangered and threatened wildlife and plants: Supplement to review of plant taxa for listing; proposed rule. 48(229): 53640-53670. 28 November 1983.

Federal Register. 1985. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species; Notice of review. 50(188): 39525-39584. 27 September 1985.

Federal Register. 1990. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species; Notice of review. 55(35): 6183-6229. 21 February 1990.

Lesica, P. and J.S. Shelly. 1991. Sensitive, threatened and endangered vascular plants of Montana. Montana Natural Heritage Program, Montana State Library, Helena, Montana.

Compiled by Peter L. Achuff
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MONTANA NATURAL HERITAGE PROGRAM
Plant Species of Special Concern

Name MTNHP Code	Family	G & S Ranks	USF&WS Status	USFS Status	State Status
ADOXA MOSCHATELLINA PDADO01010	ADOXACEAE	G5 S1		SENSITIVE	S
AGASTACHE CUSICKII PDLAM03030	LAMIACEAE	G3G4 S1	3C		E
AGOSERIS LACKSCHEWITZII PDAST090C0	ASTERACEAE	G3 S2		SENSITIVE	S
ALLIUM ACUMINATUM PMLIL02020	LILIACEAE	G5 S1			S
ALLIUM COLUMBIANUM PMLIL022R0	LILIACEAE	G3 S1			T
ALLIUM FIBRILLUM PMLIL020X0	LILIACEAE	G4 S1		SENSITIVE	T
ALLIUM PARVUM PMLIL021P0	LILIACEAE	G5 S1			S
ALLIUM SIMILLIMUM PMLIL02270	LILIACEAE	G4 S1			S
ALLOTROPA VIRGATA PDERI01010	ERICACEAE	G4 S1		SENSITIVE	T
AMMANNIA COCCINEA PDLYT01020	LYTHRACEAE	G5 S1			S
AMORPHA CANESCENS PDFAB08020	FABACEAE	G5 SX			PX
ANTENNARIA DENSIFOLIA PDAST0H160	ASTERACEAE	G3 S1		SENSITIVE	S
AQUILEGIA BREVISTYLA PDRAN05020	RANUNCULACEAE	G5 S1		SENSITIVE	S
AQUILEGIA FORMOSA PDRAN050B0	RANUNCULACEAE	G4G5 S1			S
ARABIS FECUNDA PDBRA06290	BRASSICACEAE	G2 S2	C2	SENSITIVE	T
ARABIS LYRATA PDBRA06140	BRASSICACEAE	G5 S1		WATCH	S
ARCTOSTAPHYLOS PATULA PDERI04130	ERICACEAE	G5 S1		WATCH	T
ARENARIA KINGII PDCAR040D0	CARYOPHYLLACEAE	G4 S1		SENSITIVE	S

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ARTEMISIA NORVEGICA VAR SAXATILIS PDAST0S071	ASTERACEAE	G5 S1			S
ASCLEPIAS STENOPHYLLA PDASC021U0	ASCLEPIADACEAE	G4G5 S1			S
ASPLENIUM TRICHOMANES PPASP021K0	ASPLENIACEAE	G5 SH		SENSITIVE	S
ASTER FRONDOSUS PDAST0T160	ASTERACEAE	G4 S1			S
ASTER PTARMICOIDES PDAST8P1F0	ASTERACEAE	G5 S1			S
ASTRAGALUS ARETIOIDES PDFAB0F0R0	FABACEAE	G4 S2			WL
ASTRAGALUS ARGOPHYLLUS PDFAB0F0S0	FABACEAE	G5 S1			S
ASTRAGALUS BARRII PDFAB0F150	FABACEAE	G3 S2	C2	SENSITIVE	WL
ASTRAGALUS CERAMICUS VAR APUS PDFAB0F1V1	FABACEAE	G4T3 S1	3C		S
ASTRAGALUS CHAMAELEUCE PDFAB0F1X0	FABACEAE	G5 S1			T
ASTRAGALUS CONVALLARIUS PDFAB0F2D0	FABACEAE	G5 S2			S
ASTRAGALUS GEYERI PDFAB0F3M0	FABACEAE	G5 S1			S
ASTRAGALUS GRAYI PDFAB0F3V0	FABACEAE	G3G4 S1			S
ASTRAGALUS LENTIGINOSUS PDFAB0F4Q0	FABACEAE	G5 S2			WL
ASTRAGALUS LEPTALEUS PDFAB0F4R0	FABACEAE	G4 S1		WATCH	S
ASTRAGALUS MOLYBDENUS PDFAB0F5M0	FABACEAE	G3 S1		SENSITIVE	S
ASTRAGALUS OREGANUS PDFAB0F6D0	FABACEAE	G3G4 S1			S
ASTRAGALUS PLATYTROPIS PDFAB0F6X0	FABACEAE	G5 S1			S

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ASTRAGALUS RACEMOSUS PDFAB0F7C0	FABACEAE	G5 S1			S
ASTRAGALUS SCAPHOIDES PDFAB0F7V0	FABACEAE	G3 S1	C2		S
ASTRAGALUS TERMINALIS PDFAB0F8U0	FABACEAE	G3G4 S2			WL
ATHYSANUS PUSILLUS PDBRA08010	BRASSICACEAE	G4 S1		SENSITIVE	S
ATRIPLEX TRUNCATA PDCHE04230	CHENOPODIACEAE	G5 SH			S
BACOPA ROTUNDIFOLIA PDSCR06080	SCROPHULARIACEAE	G5 S1			S
BALSAMORHIZA MACROPHYLLA PDAST11070	ASTERACEAE	G3G4 S1		SENSITIVE	S
BIDENS BECKII PDAST6A011	ASTERACEAE	G5 S2			WL
BIDENS COMOSA PDAST181S0	ASTERACEAE	G5 S1			S
BIDENS VULGATA VAR SCHIZANTHA PDAST181N1	ASTERACEAE	G5T? S1			S
BOISDUVALIA DENSIFLORA PDONA01020	ONAGRACEAE	G5 S1			S
BOTRYCHIUM CRENULATUM PPOPH010L0	OPHIOGLOSSACEAE	G3 S1	C2	WATCH	E
BOTRYCHIUM HESPERIUM PPOPH010Q0	OPHIOGLOSSACEAE	G3? S1			S
BOTRYCHIUM MINGANENSE PPOPH010R0	OPHIOGLOSSACEAE	G4 S1		SENSITIVE	S
BOTRYCHIUM MONTANUM PPOPH010K0	OPHIOGLOSSACEAE	G2G3 S2			WL
BOTRYCHIUM PARADOXUM PPOPH010J0	OPHIOGLOSSACEAE	G1 S1	C2	SENSITIVE	T
BOTRYCHIUM SPATHULATUM PPOPH01140	OPHIOGLOSSACEAE	G1 S1			
BRASENIA SCHREBERI PDNYM01010	NYMPHAEACEAE	G5 S2			WL

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BRYORIA SUBDIVERGENS NLLEC99010	LICHEN	G2 S1			
CALAMAGROSTIS TWEEDYI PMPOA17150	POACEAE	G3 S2	C2		S
CALOCHORTUS BRUNEAUNIS PMLIL0D070	LILIACEAE	G5 SH			S
CAMISSONIA ANDINA PDONA03010	ONAGRACEAE	G4 S1			S
CAMISSONIA MINOR PDONA03110	ONAGRACEAE	G4 S1			S
CAMISSONIA SCAPOIDEA PDONA031G0	ONAGRACEAE	G5 S1			S
CARDAMINE OLIGOSPERMA VAR KAMTSCHATICA PDBRA0K0U1	BRASSICACEAE	G5 S1			
CAREX AMPLIFOLIA PMCYP030N0	CYPERACEAE	G3G4 S1			T
CAREX CHORDORRHIZA PMCYP032U0	CYPERACEAE	G5 S1			S
CAREX COMOSA PMCYP032Y0	CYPERACEAE	G5 S1			E
CAREX CRAWEI PMCYP03360	CYPERACEAE	G5 S1			S
CAREX EURYCARPA PMCYP034E0	CYPERACEAE	G? S1?			S
CAREX GRAVIDA PMCYP035G0	CYPERACEAE	G5 S1			T
CAREX IDAHOA PMCYP036E0	CYPERACEAE	G3Q S1	3C	SENSITIVE	S
CAREX LENTICULARIS VAR DOLIA PMCYP037A3	CYPERACEAE	G5T2 S1	C2	WATCH	S
CAREX LIVIDA PMCYP037L0	CYPERACEAE	G5 S2		SENSITIVE	S
CAREX MARITIMA PMCYP03860	CYPERACEAE	G4G5 S1			S
CAREX MULTICOSTATA PMCYP038Y0	CYPERACEAE	G5 S1		WATCH	S

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CAREX NEUROPHORA PMCP03980	CYPERACEAE	G4 S1			WL
CAREX OCCIDENTALIS PMCP039M0	CYPERACEAE	G4 SH			S
CAREX PAUPERCULA PMCP03A70	CYPERACEAE	G5 S1		SENSITIVE	S
CAREX PETRICOSA PMCP03AF0	CYPERACEAE	G4 S1			S
CAREX SCOPARIA PMCP03C90	CYPERACEAE	G5 S1			S
CAREX STENOPTILA PMCP03CX0	CYPERACEAE	G3? S1			S
CAREX SYCHNOCEPHALA PMCP03DE0	CYPERACEAE	G4 S1			E
CAREX TENUIFLORA PMCP03DL0	CYPERACEAE	G5 S1			S
CAREX TORREYI PMCP03DT0	CYPERACEAE	G4 S1			S
CAREX VALLICOLA PMCP03EA0	CYPERACEAE	G5 SU			S
CASTILLEJA CERVINA PDSCR0D0B0	SCROPHULARIACEAE	G3G4 S1			S
CASTILLEJA COVILLEANA PDSCR0D0K0	SCROPHULARIACEAE	G3G4 S1		SENSITIVE	S
CASTILLEJA EXILIS PDSCR0D0W0	SCROPHULARIACEAE	G5 SH			S
CASTILLEJA GRACILLIMA PDSCR0D150	SCROPHULARIACEAE	G3G4 SH		SENSITIVE	S
CASTILLEJA LONGISPICA PDSCR0D1W0	SCROPHULARIACEAE	G4 S1		SENSITIVE	S
CASTILLEJA RUSTICA PDSCR0D2V0	SCROPHULARIACEAE	G3G4 S1			WL
CEANOTHUS HERBACEUS PDRHA040K0	RHAMNACEAE	G5 SX		WATCH	PX
CELASTRUS SCANDENS PDCEL03020	CELASTRACEAE	G5 S1			S

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CENTAURIUM EXALTATUM PDGEN02060	GENTIANACEAE	G5 SH			S
CENTUNCULUS MINIMUS PDPRI01020	PRIMULACEAE	G5 SH			S
CERCOCARPUS MONTANUS PDROS08020	ROSACEAE	G5 S1			S
CHRYSOSPLENIUM TETRANDRUM PDSAX07050	SAXIFRAGACEAE	G4G5 S2		SENSITIVE	S
CHRYSOTHAMNUS LINIFOLIUS PDAST2C050	ASTERACEAE	G5 SH			S
CHRYSOTHAMNUS PARRYI SSP. MONTANUS PDAST2C098	ASTRACEAE	G5T1 S1	C2	SENSITIVE	S
CIRSIUM BREVISTYLUM PDAST2E0B0	ASTERACEAE	G4 S1			S
CIRSIUM LONGISTYLUM PDAST2E1P0	ASTERACEAE	G2Q S3	C2		S
CIRSIUM SUBNIVEUM PDAST2E2S0	ASTERACEAE	G3G4 S1		SENSITIVE	S
CLARKIA RHOMBOIDEA PDONA050X0	ONAGRACEAE	G4 S1		SENSITIVE	S
CLAYTONIA LANCEOLATA VAR FLAVA PDPOR03092	PORTULACACEAE	G5T1 S1	C2	SENSITIVE	U
CLEOME LUTEA PDCPP03070	CAPPARACEAE	G5 S1			S
COLLOMIA TINCTORIA PDPLM020A0	POLEMONIACEAE	G5 SH			S
CONIOSELINUM SCOPULORUM PDAPI0P040	APIACEAE	G4 S1			S
CORYDALIS SEMPERVIRENS PDPAP070B0	PAPAVACEAE	G4G5 SH			S
CRYPTANTHA FENDLERI PDBOR0A0X0	BORAGINACEAE	G4 S1			S
CRYPTANTHA FLAVOCULATA PDBOR0A100	BORAGINACEAE	G5 S1			S
CYPERUS ACUMINATUS PMCYP06010	CYPERACEAE	G5 S1			S

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CYPERUS RIVULARIS PMCP06320	CYPERACEAE	G5 S1			S
CYPERUS SCHWEINITZII PMCP06360	CYPERACEAE	G5 S1			S
CYPRIPEDIUM CALCEOLUS VAR PARVIFLORUM PMORC0Q090	ORCHIDACEAE	G5T3 S2		SENSITIVE	S
CYPRIPEDIUM FASCICULATUM PMORC0Q060	ORCHIDACEAE	G3 S1	3C	SENSITIVE	T
CYPRIPEDIUM PASSERINUM PMORC0Q0A0	ORCHIDACEAE	G4G5 S2		SENSITIVE	S
CYSTOPTERIS MONTANA PPASP08050	ASPLENIACEAE	G4 SH			S
DALEA ENNEANDRA PDFAB1A0D0	FABACEAE	G5 S1			S
DALEA VILLOSA PDFAB1A1Q0	FABACEAE	G5 S1			S
DELPHINIUM ANDERSONII PDRAN0B030	RANUNCULACEAE	G5 S1		WATCH	S
DELPHINIUM BURKEI PDRAN0B090	RANUNCULACEAE	G4 S1			S
DELPHINIUM GEYERI PDRAN0B0L0	RANUNCULACEAE	G5 SU			S
DICHANTHELIUM OLIGOSANTHES PMPOA240Q0	POACEAE	G5 SH			S
DOWNINGIA LAETA PDCAM06080	CAMPANULACEAE	G5 S1			WL
DRABA APICULATA PDBRA11050	BRASSICACEAE	G4G5 S1			S
DRABA DENSIFOLIA PDBRA110W0	BRASSICACEAE	G5 S2			WL
DRABA FLADNIZENSIS PDBRA110Z0	BRASSICACEAE	G4 S1			S
DRABA MACOUNII PDBRA111H0	BRASSICACEAE	G3 S1			S
DRABA PORSILDII PDBRA11200	BRASSICACEAE	G3 S1			S

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DRABA VENTOSA PDBRA112N0	BRASSICACEAE	G5 S1			S
DROSERANGLICA PDDRO02010	DROSERACEAE	G5 S2			WL
DROSERALINEARIS PDDRO02060	DROSERACEAE	G4 S1		SENSITIVE	S
DRYAS INTEGRIFOLIA PDROS0L020	ROSACEAE	G5 S1			S
DRYOPTERIS CRISTATA PPASP0C080	ASPLENIACEAE	G5 S2		SENSITIVE	S
ELATINE CALIFORNICA PDELTO2040	ELATINACEAE	G5 S1			WL
ELEOCHARIS ROSTELLATA PMCYP091P0	CYPERACEAE	G5 S2			T
ELEOCHARIS XYRIDIFORMIS PMCYP09200	CYPERACEAE	G4 S1			S
ELODEA LONGIVAGINATA PMHYD03060	HYDROCHARITACEAE	G4G5 S1			S
ELYMUS FLAVESCENS PMPOA2H070	POACEAE	G4 S1			S
ELYMUS INNOVATUS PMPOA2H0A0	POACEAE	G4 S1		SENSITIVE	S
EPILOBIUM SUFFRUTICOSUM PDONA060Y0	ONAGRACEAE	G5 S2			WL
EPIPACTIS GIGANTEA PMORC11010	ORCHIDACEAE	G4 S1		SENSITIVE	T
ERIGERON ALLOCOTUS PDAST3M050	ASTERACEAE	G3 S2	3C		WL
ERIGERON ASPERUGINEUS PDAST3M0D0	ASTERACEAE	G4 S1		SENSITIVE	S
ERIGERON EATONII PDAST3M170	ASTERACEAE	G4 S1		WATCH	S
ERIGERON EVERMANNII PDAST3M1B0	ASTERACEAE	G4 S1		SENSITIVE	S
ERIGERON FLAGELLARIS PDAST3M1F0	ASTERACEAE	G5 S1			S

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ERIGERON FORMOSISSIMUS PDAST3M1K0	ASTERACEAE	G4 S1			S
ERIGERON GRACILIS PDAST3M1R0	ASTERACEAE	G4 S2			WL
ERIGERON LACKSCHEWITZII PDAST3M4F0	ASTERACEAE	G2Q S2	C2		S
ERIGERON LEIOMERUS PDAST3M290	ASTERACEAE	G4 S1			S
ERIGERON LINEARIS PDAST3M2B0	ASTERACEAE	G5 S1		SENSITIVE	S
ERIOPHORUM VIRIDICARINATUM PMCYP0A0E0	CYPERACEAE	G5 S1		SENSITIVE	S
EUPATORIUM MACULATUM PDAST3P140	ASTERACEAE	G5 S1			S
EUPATORIUM OCCIDENTALE PDAST3P180	ASTERACEAE	G4 S1		SENSITIVE	S
EUPHRASIA ARCTICA PDSCR0P010	SCROPHULARIACEAE	G5 S1			S
FESTUCA VIVIPARA PMPOA2V1D0	POACEAE	G3G4 S1			S
GAULTHERIA OVATIFOLIA PDERI0F040	ERICACEAE	G5 S2			WL
GENTIANA AQUATICA PDGEN06050	GENTIANACEAE	G4 S2			S
GENTIANA GLAUCA PDGEN060E0	GENTIANACEAE	G4 S1			T
GENTIANA PROSTRATA PDGEN060M0	GENTIANACEAE	G5 S2			WL
GENTIANELLA TENELLA PDGEN07070	GENTIANACEAE	G4 S2			WL
GENTIANOPSIS MACOUNII PDGEN08050	GENTIANACEAE	G5 S1			S
GENTIANOPSIS SIMPLEX PDGEN080A0	GENTIANACEAE	G3G4 S1		SENSITIVE	T
GEOCAULON LIVIDUM PDSAN04010	SANTALACEAE	G4 S2			WL

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GILIA INCONSPICUA PDPLM040N0	POLEMONIACEAE	G5 S1			S
GILIA LEPTOMERIA PDPLM040X0	POLEMONIACEAE	G5 S2?			S
GLOSSOPETALON NEVADENSE PDCRO03070	CELASTRACEAE	G4 S1		SENSITIVE	E
GOODYERA REPENS PMORC17030	ORCHIDACEAE	G5 S2		SENSITIVE	S
GRATIOLA EBRACTEATA PDSCR0R030	SCROPHULARIACEAE	G5 S1			S
GRAYIA SPINOSA PDCHE0C020	CHENOPODIACEAE	G5 S1			S
GRINDELIA HOWELLII PDAST470E0	ASTERACEAE	G3 S3	C2	SENSITIVE	WL
HALENIA DEFLEXA PDGEN09010	GENTIANACEAE	G5 S1			S
HAPLOPAPPUS ABERRANS PDAST4F010	ASTERACEAE	G3 S1	3C	SENSITIVE	S
HAPLOPAPPUS MACRONEMA SSP LINEARIS PDAST4F0U3	ASTERACEAE	G4T? S2			S
HAPLOPAPPUS MACRONEMA VAR MACRONEMA PDAST4F0U2	ASTERACEAE	G4T4 S1		SENSITIVE	S
HAPLOPAPPUS NANUS PDAST3L0B0	ASTERACEAE	G5 SH			S
HAPLOPAPPUS PYGMAEUS PDAST4F100	ASTERACEAE	G4 SH			S
HELENIIUM HOOPESII PDAST34010	ASTERACEAE	G5 S1			S
HETERANTHERA DUBIA PMPON06010	PONTEDERIACEAE	G5 S1			S
HETEROCODON RARIFLORUM PDCAM08010	CAMPANULACEAE	G5 S1			S
HOWELLIA AQUATILIS PDCAM0A010	CAMPANULACEAE	G2 S2	C1	SENSITIVE	T
HUTCHINSIA PROCUMBENS PDBRA1E010	BRASSICACEAE	G5 S1			S

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IDAHOA SCAPIGERA PDBRA1G010	BRASSICACEAE	G5 S1		SENSITIVE	S
IPOMOPSIS CONGESTA SSP CREBRIFOLIA PDPLM06032	POLEMONIACEAE	G4T4 S1			S
IPOMOPSIS PUMILA PDPLM060E0	POLEMONIACEAE	G4 S1			S
JUNCUS ACUMINATUS PMJUN01030	JUNCACEAE	G5 S1			S
JUNCUS COVILLEI VAR COVILLEI PMJUN010V1	JUNCACEAE	G5T5 S1			S
JUNCUS COVILLEI VAR OBTUSATUS PMJUN010V2	JUNCACEAE	G5T4 S1			S
JUNCUS HALLII PMJUN011E0	JUNCACEAE	G4G5 S1		SENSITIVE	S
JUNCUS TRIGLUMIS VAR ALBESCENS PMJUN012Z1	JUNCACEAE	G5T5 S1			S
KELLOGGIA GALIOIDES PDRUB12010	RUBIACEAE	G5 S1			S
KOBRESIA MACROCARPA PMCYP0F020	CYPERACEAE	G5 S1		SENSITIVE	S
KOBRESIA SIMPLICIUSCULA PMCYP0F030	CYPERACEAE	G5 S1		WATCH	S
KOCHIA AMERICANA PDCHE0E010	CHENOPODIACEAE	G4 SH			S
KOENIGIA ISLANDICA PDPGN0D010	POLYGONACEAE	G4 S1			WL
LAGOPHYLLA RAMOSISSIMA PDAST5J050	ASTERACEAE	G5 S1			S
LATHYRUS BIJUGATUS PDFAB25040	FABACEAE	G4G5 S1			S
LEPTODACTYLON CAESPITOSUM PDPLM08010	POLEMONIACEAE	G3G4 S1			S
LESQUERELLA CARINATA PDBRA1N0B0	BRASSICACEAE	G4 S1	3C	WATCH	S
LESQUERELLA HUMILIS PDBRA1N1Y0	BRASSICACEAE	G1 S1	C2	SENSITIVE	S

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LESQUERELLA KLAUSII PDBRA1N1Z0	BRASSICACEAE	G3 S3			WL
LESQUERELLA PAYSONII PDBRA1N190	BRASSICACEAE	G4 S1		SENSITIVE	S
LEWISIA COLUMBIANA PDPOR04030	PORTULACACEAE	G4 S1			S
LEWISIA PYGMAEA VAR NEVADENSIS PDPOR040A0	PORTULACACEAE	G5T4 S1			S
LIGUSTICUM FILICINUM PDAP118060	APIACEAE	G4 S1			WL
LILAEA SCILLOIDES PMSCH01010	SCHEUCHZERIAACEAE	G4 S1			S
LILIUM COLUMBIANUM PMLIL1A050	LILIACEAE	G4G5 S1			S
LINARIA CANADENSIS PDSCR110D0	SCROPHULARIACEAE	G4G5 S1			S
LOBELIA SPICATA PDCAM0E190	CAMPANULACEAE	G5 SH			S
LOMATIUM GEYERI PDAP11B0N0	APIACEAE	G3G4 S1		SENSITIVE	S
LYCOPODIUM ALPINUM PPLYC01020	LYCOPODIACEAE	G5 S2			S
LYCOPODIUM INUNDATUM PPLYC010H0	LYCOPODIACEAE	G5 S1		SENSITIVE	S
LYCOPODIUM OBSCURUM PPLYC010P0	LYCOPODIACEAE	G5 SH			S
MACHAERANTHERA COMMIXTA PDAST640D0	ASTERACEAE	G3G4 S1			S
MADIA MINIMA PDAST650C0	ASTERACEAE	G4 S1			S
MAIANTHEMUM CANADENSE PMLIL1D010	LILIACEAE	G5 SH			S
MALACOTHRIX TORREYI PDAST660L0	STERACEAE	G4 S1			S
MENTZELIA MONTANA PDLOA03110	LOASACEAE	G4 SU		WATCH	S

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MENTZELIA NUDA PDLOA03150	LOASACEAE	G5 S1		WATCH	S
MENTZELIA PUMILA PDLOA031G0	LOASACEAE	G4 S1			S
MERTENSIA BELLA PDBOR0N040	BORAGINACEAE	G4 S1		SENSITIVE	S
MIMULUS NANUS PDSCR1B1Y0	SCROPHULARIACEAE	G5 S1S2			S
MIMULUS PRIMULOIDES PDSCR1B270	SCROPHULARIACEAE	G4 S1		SENSITIVE	T
MIMULUS SUKSDORFII PDSCR1B2L0	SCROPHULARIACEAE	G5 S1			WL
MIRABILIS HIRSUTA PDNYC0A0P0	NYCTAGINACEAE	G5 S1			S
MYOSOTIS VERNA PDBOR0P0D0	BORAGINACEAE	G5 S1			E
NAJAS GUADALUPENSIS PMNAJ01050	NAJADACEAE	G5 S1			S
NYMPHAEA TETRAGONA PDNYM050B0	NYMPHAEACEAE	G5 S1			T
OENOTHERA PALLIDA VAR IDAHOENSIS PDONA0C0Y2	ONAGRACEAE	G5T4Q S1			T
OPHIOGLOSSUM VULGATUM PPOPH020B0	OPHIOGLOSSACEAE	G5 S1			S
ORCHIS ROTUNDIFOLIA PMORC01010	ORCHIDACEAE	G5 S2		SENSITIVE	S
OROBANCHE CORYMBOSA PDORO04040	OROBANCHACEAE	G4 S1		WATCH	S
OROGENIA FUSIFORMIS PDAP11J010	APIACEAE	G4 S1		SENSITIVE	S
OXYTROPIS PODOCARPA PDFAB2X0K0	FABACEAE	G4 S1		SENSITIVE	S
PANICUM OCCIDENTALE PMPOA24020	POACEAE	G5 S2			WL
PAPAVER KLUANENSIS PDPAP0H0H0	PAPAVERACEAE	G4 S1			S

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PENSTEMON ANGUSTIFOLIUS PDSCR1L0C0	SCROPHULARIACEAE	G5 S1			S
PENSTEMON ATTENUATUS VAR MILITARIS PDSCR1L0H2	SCROPHULARIACEAE	G4T4 S1		WATCH	S
PENSTEMON CARYI PDSCR1L180	SCROPHULARIACEAE	G2G3 S2	3C		WL
PENSTEMON LEMHIENSIS PDSCR1L3N0	SCROPHULARIACEAE	G3 S2	C2	SENSITIVE	T
PENSTEMON PAYETTENSIS PDSCR1L4T0	SCROPHULARIACEAE	G4 S1			S
PENSTEMON WHIPPLEANUS PDSCR1L6P0	SCROPHULARIACEAE	G5 S1			S
PETASITES FRIGIDUS VAR NIVALIS PDAST71012	ASTERACEAE	G5 S1			S
PHACELIA INCANA PDHYD0C270	HYDROPHYLLACEAE	G3G4 S1			S
PHACELIA IVESIANA PDHYD0C2G0	HYDROPHYLLACEAE	G5 S1			S
PHACELIA SCOPULINA PDHYD0C490	HYDROPHYLLACEAE	G4 SH			S
PHACELIA THERMALIS PDHYD0C4L0	HYDROPHYLLACEAE	G3G4 S1			S
PHLOX ANDICOLA PDPLM0D080	POLEMONIACEAE	G4 S1			WL
PHLOX KELSEYI VAR MISSOULENSIS PDPLM0D144	POLEMONIACEAE	G4T2Q S2	3C	SENSITIVE	WL
PLAGIOBOTHRYUS LEPTOCLADUS PDBOR0V0N0	BORAGINACEAE	G4 S1			S
POLYGONUM DOUGLASII SSP AUSTINAE PDPGN0L0X1	POLYGONACEAE	G4T4 S1		SENSITIVE	S
POLYSTICHUM KRUCKEBERGII PPASP0U0B0	ASPLENIACEAE	G3G4 S1	3C		S
POLYSTICHUM SCOPULINUM PPASP0U0K0	ASPLENIACEAE	G5 S1			S
POTAMOGETON OBTUSIFOLIUS PMPOT030R0	POTAMOGETONACEAE	G5 S2		SENSITIVE	S

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POTENTILLA BREVIFOLIA PDROS1B0B0	ROSACEAE	G4 S1			S
POTENTILLA DIVERSIFOLIA VAR MULTISECTA PDROS1B0H2	ROSACEAE	G5T3T4 SH			S
POTENTILLA PLATTENSIS PDROS1B1E0	ROSACEAE	G4 S1			S
POTENTILLA QUINQUEFOLIA PDROS1B1H0	ROSACEAE	G4 S1			S
POTENTILLA UNIFLORA PDROS1B2B0	ROSACEAE	G5 S1			S
PRUNUS PUMILA PDROS1C160	ROSACEAE	G5 S1			S
PSILOCARPHUS BREVISSIMUS PDAST7R010	ASTERACEAE	G5 S1			S
PSORALEA HYPOGAEA PDFAB3B0F0	FABACEAE	G3G4 S1			T
QUERCUS MACROCARPA PDFAG05190	FAGACEAE	G5 S1			E
RANUNCULUS CARDIOPHYLLUS PDRAN0L0K0	RANUNCULACEAE	G4 S1			S
RANUNCULUS GELIDUS PDRAN0L0Y0	RANUNCULACEAE	G4 S1			S
RANUNCULUS HYPERBOREUS PDRAN0L1A0	RANUNCULACEAE	G5 SH			S
RANUNCULUS JOVIS PDRAN0L1D0	RANUNCULACEAE	G4 S1		SENSITIVE	S
RANUNCULUS ORTHORHYNCHUS PDRAN0L1Y0	RANUNCULACEAE	G5 S1			WL
RANUNCULUS PEDATIFIDUS PDRAN0L220	RANUNCULACEAE	G5 S1			
RANUNCULUS VERECUNDUS PDRAN0L2Q0	RANUNCULACEAE	G5 S1			WL
RIBES COGNATUM PDGRO02090	GROSSULARIACEAE	G3G4 S1			S
RIBES TRISTE PDGRO021K0	GROSSULARIACEAE	G5 S1			S

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RORIPPA CALYCINA PDBRA27040	BRASSICACEAE	G3 S1	C2	WATCH	S
ROOTALA RAMOSIOR PDLYT0B030	LYTHRACEAE	G5 S1			S
SAGINA NIVALIS PDCAR0P070	CARYOPHYLLACEAE	G5 S1			S
SALIX BARRATTIANA PDSAL020D0	SALICACEAE	G5 S1		SENSITIVE	S
SALIX CASCADENSIS PDSAL020N0	SALICACEAE	G4G5 S1			S
SALIX SERISSIMA PDSAL022P0	SALICACEAE	G4 S1		WATCH	S
SALIX WOLFII VAR WOLFII PDSAL02341	SALICACEAE	G4T4 S1		SENSITIVE	S
SATUREJA DOUGLASII PDLAM1T020	LAMIACEAE	G4 S2			WL
SAUSSUREA DENSA PDAST8B051	ASTERACEAE	G3 S1		SENSITIVE	S
SAUSSUREA WEBERI PDAST8B060	ASTERACEAE	G3 S1	3C	SENSITIVE	S
SAXIFRAGA APETALA PDSAX0U220	SAXIFRAGACEAE	G3 S2			S
SAXIFRAGA TEMPESTIVA PDSAX0U1R0	SAXIFRAGACEAE	G2 S2		SENSITIVE	WL
SCIRPUS CESPITOSUS PMCYP0Q060	CYPERACEAE	G5 S1			WL
SCIRPUS CYPERINUS PMCYP0Q0F0	CYPERACEAE	G5 S1		SENSITIVE	S
SCIRPUS HETEROCHAETUS PMCYP0Q0T0	CYPERACEAE	G5 S1			S
SCIRPUS HUDSONIANUS PMCYP0A010	CYPERACEAE	G5 S1			S
SCIRPUS NEVADENSIS PMCYP0Q130	CYPERACEAE	G4 S1			S
SCIRPUS PUMILUS PMCYP0Q1B0	CYPERACEAE	G5 S1			S

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SCIRPUS SUBTERMINALIS PMCYP0Q1G0	CYPERACEAE	G4G5 S1		SENSITIVE	S
SELAGINELLA SELAGINOIDES PPSEL01110	SELAGINELLACEAE	G5 S1			S
SELAGINELLA WATSONII PPSEL011D0	SELAGINELLACEAE	G4G5 S1		SENSITIVE	T
SENECIO AMPECTENS PDAST8H020	ASTERACEAE	G4 S1			S
SENECIO DEBILIS PDAST8H110	ASTERACEAE	G3G4 S1			S
SENECIO EREMOPHILUS PDAST8H160	ASTERACEAE	G4 S1			S
SHOSHONEA PULVINATA PDAP12G010	APIACEAE	G2G3 S1	C2	SENSITIVE	S
SIDALCEA OREGANA PDMAL110K0	MALVACEAE	G5 S1			S
SILENE SPALDINGII PDCAR0U1S0	CARYOPHYLLACEAE	G2 S1	C2	WATCH	T
SPHAERALCEA MUNROANA PDMAL140F0	MALVACEAE	G4 S1			S
SPHENOPHOLIS OBTUSATA VAR MAJOR PMPOA5T031	POACEAE	G5T5 S2			WL
SPIRAEA X PYRAMIDATA PDROS1Q0J0	ROSACEAE	G3G4 S1			S
SPOROBOLUS ASPER PMPOA5V030	POACEAE	G5 SH			S
SPOROBOLUS NEGLECTUS PMPOA5V0L0	POACEAE	G5 S1			S
STANLEYA TOMENTOSA PDBRA2E050	BRASSICACEAE	G4 S1			S
STANLEYA VIRIDIFLORA PDBRA2E060	BRASSICACEAE	G4 S1			WL
STELLARIA CRASSIFOLIA PDCAR0X090	CARYOPHYLLACEAE	G4 S1			S
STEPHANOMERIA SPINOSA PDAST8U0E0	ASTERACEAE	G4 S1			S

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STREPTANTHELLA LONGIROSTRIS PDBRA2F010	BRASSICACEAE	G5 S1			S
SUCKLEYA SUCKLEYANA PDCHE0Q010	CHENOPODIACEAE	G4 S1			S
SULLIVANTIA HAPEMANII PDSAX0X010	SAXIFRAGACEAE	G3 S1	3C		S
SYNTHYRIS MISSURICA PDSCR1W040	SCROPHULARIACEAE	G4 S1			S
TARAXACUM ERIOPHORUM PDAST930G0	ASTERACEAE	G4 S1			S
THALICTRUM ALPINUM PDRAN0M010	RANUNCULACEAE	G4G5 S1		SENSITIVE	S
THELYPODIUM PANICULATUM PDBRA2N0B0	BRASSICACEAE	G3G4 S1			S
THELYPODIUM SAGITTATUM PDBRA2N0E0	BRASSICACEAE	G3G4 S1			S
THELYPTERIS PHEGopteris PPASP0X130	ASPLENIACEAE	G5 S1		SENSITIVE	T
THLASPI PARVIFLORUM PDBRA2P050	BRASSICACEAE	G3 S1		SENSITIVE	S
TOFIELDIA PUSILLA PMLIL1Y040	LILIACEAE	G4G5 S1			S
TOWNSENDIA CONDENSATA PDAST9C040	ASTERACEAE	G3 S1			WL
TOWNSENDIA FLORIFER PDAST9C080	ASTERACEAE	G5 S1			S
TOWNSENDIA INCANA PDAST9C0D0	ASTERACEAE	G5 S1			S
TOWNSENDIA SPATHULATA PDAST9C0M0	ASTERACEAE	G3 S2	3C		S
TRIFOLIUM CYATHIFERUM PDFAB400N0	FABACEAE	G4 S1			S
TRIFOLIUM ERIOCEPHALUM PDFAB400V0	FABACEAE	G4 S1		SENSITIVE	S
TRIFOLIUM GYMNOCARPON PDFAB40110	FABACEAE	G4 S1		SENSITIVE	S

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TRIFOLIUM LATIFOLIUM PDFAB401A0	FABACEAE	G4 S1			S
TRIFOLIUM MICROCEPHALUM PDFAB401J0	FABACEAE	G5 S1			S
TRIGLOCHIN CONCINNUM PMSCH03010	SCHEUCHZERIAEAE	G5 S1			S
UTRICULARIA INTERMEDIA PDLNT020A0	LENTIBULARIAEAE	G5 S1			S
VACCINIUM MYRTILLOIDES PDERI180M0	ERICACEAE	G5 S1		WATCH	T
VERATRUM CALIFORNICUM PMLIL25020	LILIACEAE	G5 S1		SENSITIVE	S
VIBURNUM LENTAGO PDCPR070B0	CAPRIFOLIACEAE	G5 S1			S
VIOLA RENIFOLIA PDVIO041V0	VIOLACEAE	G5 S1		SENSITIVE	S
WALDSTEINIA IDAHOENSIS PDROS1S020	ROSACEAE	G3 S1	3C	WATCH	T
WOLFFIA COLUMBIANA PMLEM03030	LEMNACEAE	G5 S2			S
WYETHIA SCABRA PDAST9X0E0	ASTERACEAE	G4 S1			S
XYLORHIZA GLABRIUSCULA PDASTA1030	ASTERACEAE	G4 S1			S

Plants of Limited Geographic Distribution in Montana:

AGROSTIS BOREALIS
ARTEMISIA PEDATIFIDA
ASTRAGALUS HYALINUS
CALOCHORTUS ELEGANS
CARDAMINE RUPICOLA
CAREX CAPITATA
CAREX MISANDRA
CASTILLEJA ANGUSTIFOLIA
CASTILLEJA OCCIDENTALIS
CORDYLANTHUS RAMOSUS
CRYPTANTHA CANA
DRABA DAVIESIAE
ERIGERON FLABELLIFOLIUS
ERIGERON LANATUS
ERIOGONUM OVALIFOLIUM VAR NEVADENSE
ERIOGONUM PYROLIFOLIUM VAR CORYPHEUM
ERIOGONUM UMBELLATUM VAR STELLATUM
ERIOGONUM X LAGOPUS
HAPLOPAPPUS MULTICAULIS
HYMENOXYS TORREYANA
JUNCUS CASTANEUS
JUNCUS TRIGLUMIS VAR TRIGLUMIS
LINANTHUS NUTTALLII

LOMATIUM BICOLOR
OXYTROPIS LAGOPUS VAR CONJUGENS
PAPAVER PYGMAEUM
PEDICULARIS CONTORTA VAR CTENOPHORA
PEDICULARIS CONTORTA VAR RUBICUNDA
PEDICULARIS OEDERI
PENSTEMON FLAVESCENS
PHIPPSIA ALGIDA
PHYSARIA ACUTIFOLIA
PHYSOCARPUS MONOGYNUS
PINGUICULA VULGARIS
PLATYSCHKUHRIA INTEGRIFOLIA
RUBUS URSINUS
SAXIFRAGA CHRYSANTHA
SAXIFRAGA MARSHALLII
SAXIFRAGA TOLMIEI VAR LEDIFOLIA
SEDUM DEBILE
SEDUM LEIBERGII
SENECIO FUSCATUS
SPHAEROMERIA CAPITATA
SYNTHYRIS CANBYI
WOLFFIA PUNCTATA

Plants of Undetermined Status in Montana:

AGOSERIS AURANTIACA VAR PURPUREA
 AMARANTHUS CALIFORNICUS
 AMBROSIA ACANTHICARPA
 ANTENNARIA PULCHERRIMA
 ARTEMISIA LONGILOBA
 ARTEMISIA TILESII SSP UNALASCHCENSIS
 ASTER SIMPLEX
 ASTRAGALUS MISER VAR CRISPATUS
 BULBOSTYLIS CAPILLARIS
 CALAMAGROSTIS KOELERIOIDES
 CALAMAGROSTIS SCOPULORUM
 CAMISSONIA TANACETIFOLIA
 CAREX AENEA
 CAREX EBENEA
 CAREX EBURNEA
 CAREX JONESII
 CAREX MICROGLOCHIN
 CAREX STRAMINIFORMIS
 CAREX TINCTA
 CORDYLANTHUS CAPITATUS
 CRYPTANTHA HUMILIS
 CYPERUS ERYTHORRHIZOS
 ELEOCHARIS BELLA
 ELEOCHARIS FLAVESCENS
 ERIGERON BELLIDIASTRUM
 ERIOGONUM CAESPITOSUM
 ERIOGONUM CHRYSOCEPHALUM
 ERIOGONUM UMBELLATUM VAR AUREUM
 ERIOPHORUM SCHEUCHZERI
 GEUM CANADENSE
 GEUM ROSSII VAR ROSSII
 GNAPHALUM PURPUREUM VAR PURPUREUM
 GRINDELIA NANA VAR INTEGRIFOLIA
 HALIMOLOBOS VIRGATA
 HEMICARPHA DRUMMONDII
 HIEROCHLOE ALPINA
 HYMENOPAPPUS FILIFOLIUS VAR IDAHOENSIS
 HYMENOPAPPUS FILIFOLIUS VAR LUTEUS
 LEPIDIUM MONTANUM
 LIGUSTICUM PORTERI (USFS Watch List)
 MUHLENBERGIA MINUTISSIMA
 MUHLENBERGIA MONTANA
 NAVARRETIA DIVARICATA
 OENOTHERA ELATA VAR HIRSUTISSIMA
 OXYTROPIS COLUMBIANA
 PHYSALIS HEDERAEFOLIA
 PHYSALIS HETEROPHYLLA
 PHYSALIS PUMILA
 PRIMULA ALCALINA
 SAXIFRAGA OREGANA VAR OREGANA
 SELAGINELLA Densa VAR STANDLEYI
 SENEIO HYPERBOREALIS
 SENEIO PAUCIFLORUS
 SOLIDAGO SPARSIFLORA
 SOLIDAGO SPATHULATA
 SPARGANIUM ANDROCLADUM
 SPOROBOLUS VAGINIFLORUS
 STIPA LEMMONII VAR LEMMONII
 STIPA LETTERMANII
 STIPA THURBERIANA
 TOWNSENDIA LEPTOTES
 TOWNSENDIA NUTTALLII
 TRADESCANTIA BRACTEATA
 TRISETUM ORTHOCHAETUM
 VACCINIUM OVALIFOLIUM
 VERBENA BIPINNATIFIDA
 VERBESINA ENCELIOIDES
 VERNONIA FASCICULATA SSP CORYMBOSA
 VIBURNUM OPULUS
 VIOLA PEDATIFIDA
 ZIZIA AUREA